



1. REFER TO SHEET ES103 FOR THE SITE LIGHTING AND SECURITY CAMERA PLAN.
2. ALL HANDHOLES SHALL BE TYPE 6. ALL MANHOLES SHALL BE TYPE 2. SEE DETAILS ON SHEET E-505.
3. ALL HANDHOLE/MANHOLE INTERCEPT POINTS SHALL BE FIELD VERIFIED PRIOR TO BEGINNING WORK.


1. NEW UNDERGROUND, CONCRETE ENCASED PDS FROM B470 TO B464.
2. PROVIDE TWO-PIECE MANHOLE TO INTERCEPT THE EXISTING CONCRETE ENCASED 4.16KV FEEDER SERVING B464'S SECOND FLOOR.
3. EXISTING SECTION OF DUCTBANK FROM (E)MH-2 TO (E)MH-1 TO BE REMOVED ONCE REPLACEMENT DUCTBANK IS INSTALLED AND FEEDERS ARE RECONNECTED. (THE NEW/REPLACEMENT DUCTBANK IS SHOWN. SEE SHEET ES101 FOR THE EXISTING DUCTBANK).
4. PROVIDE 2" CONDUIT FROM EXISTING VERIZON HANDHOLE TO THE HEAD END LOCATION SHOWN ON SHEET TN100. PENETRATE B470'S BASEMENT AND VAPOR SEAL PENETRATION. COORDINATE EXACT HANDHOLE LOCATION WITH VERIZON, AND BASEMENT PENETRATION LOCATION WITH THE GOVERNMENT.
5. PROVIDE TYPE 5 HANDHOLE FOR REPLACEMENT POWER SERVICE TO GIANT VOICE POLE. SEE SHEET E-141 FOR CONTINUATION DETAILS, AND BRANCH CIRCUIT INFORMATION UP TO ELECTRICAL ROOM 125 IN BUILDING B470.
6. VERIFY FINAL FIBER TERMINATION LOCATION WITHIN B464 SECOND FLOOR WITH CUS. PROVIDE RACK MOUNTED FIBER PATCH PANEL ENCLOSURES FOR TERMINATION, ONE FOR MULTIMODE FIBER AND ONE FOR SINGLE MODE FIBER.
7. FOR THE UNDERGROUND TELECOM SERVICES TO B470 AND B464: THE CONTRACTOR SHALL HAND DIG IN THIS AREA DUE TO EXISTING CRITICAL UNDERGROUND TELECOM CABLING. THE CONTRACTOR SHALL ASSUME THIS AREA INCLUDES FROM THE FACE OF B470 TO THE EXISTING SANITARY LINE.
8. PRIOR TO DUCTBANK INSTALLATION, THE CONTRACTOR SHALL PERFORM TEST PITS TO LOCATE THE EXISTING POWER, WATER, AND TELECOM LINES ROUTED DOWN BULLPUP STREET IN ORDER TO FACILITATE THE DUCTBANK INSTALLATION.
9. PROVIDE AN ADDITIONAL 1" CONDUIT FROM THE LOAD BANK TO EXISTING PANEL UBH (277/480V). PROVIDE BRANCH CIRCUIT CONDUCTORS FOR THE LOAD BANK COOLING FANS PER MANUFACTURER'S INSTRUCTIONS.
10. PROVIDE TWO-PIECE, TYPE 1, MANHOLE TO INTERCEPT EXISTING NCTAMS LANT TWO (2) 200 PAIR COPPER CABLES. CONTRACTOR TO PERFORM SPLICING OF THE 200PR COPPER THAT CURRENTLY SERVES B470. STAGE CABLING TO MINIMIZE OUTAGES. CONTRACTOR TO PROVIDE NEW PUNCH DOWN BLOCKS AND SHALL TERMINATE THE 200PR CABLE. NCTAMS LANT SHALL CROSS CONNECT TO THE EXISTING SYSTEMS.
11. PROVIDE TWO-PIECE TYPE 6 HANDHOLE TO INTERCEPT EXISTING 18ST SINGLE MODE FIBER (NCTAMS LANT). CONTRACTOR TO PERFORM FUSION SPLICING OF THE FIBER FROM B127 AND THE FIBER TO B448. STAGE CABLING TO MINIMIZE OUTAGES. CONTRACTOR PROVIDE TWO (2) NEW 24 PORT PATCH PANELS INSIDE B470. CONTRACTOR CONNECT THE NEW CABLING AND GOVERNMENT TO CROSS CONNECT TO THE EXISTING SYSTEMS.
12. THE CONTRACTOR SHALL FUSION SPlice THE NEW 12ST SM FIBER ONTO THE EXISTING B470 FIBER IN THE EXISTING HANDHOLE. STAGE CABLING TO MINIMIZE OUTAGES. CONTRACTOR TO PROVIDE A NEW 24 PORT PATCH PANEL INSIDE B470 AND TERMINATE CABLING. CUS/NOPF SHALL CROSS CONNECT TO THE EXISTING SYSTEMS. PROVIDE TYPE 6, LOCKABLE HANDHOLE ALONG CONDUIT PATH BEFORE ENTERING B470'S BASEMENT.
13. PROVIDE 2-PIECE, TYPE 6, LOCKABLE HANDHOLE TO INTERCEPT IUSS CABLING (UPSTREAM HANDHOLE SIMILAR). THE CONTRACTOR SHALL PROVIDE FUSION SPLICES IN THE HANDHOLE, AND NEW 48-PORT PATCH PANEL AND TERMINATIONS INSIDE B470. CUS/NOPF SHALL PERFORM THE CROSS CONNECTIONS TO THE EXISTING SYSTEMS.
14. CAP THE SPARE CONDUITS INSIDE THE BASEMENT AS THEY PENETRATE THE EXTERIOR WALL (EXCEPT FOR THE COX CONDUIT THAT SHALL CONTINUE TO THE HEAD END LOCATION SHOWN ON TN100). ONLY THE CONDUITS WITH CABLING SHALL CONTINUE THROUGH THE BASEMENT AND TURN UP AT THEIR HEAD END LOCATIONS. SEE SHEET TN100 (NOTES 20 THROUGH 24 & 27) FOR THE LOCATIONS OF THE RESPECTIVE HEAD END EQUIPMENT.
15. CORE DRILL THROUGH WALL FOR INCOMING TELECOM CONDUIT(S).
16. PROVIDE TWO-PIECE TYPE 6 HANDHOLE TO INTERCEPT EXISTING COX FIBER. COX TO PROVIDE SPLICES, HEAD END CONNECTIONS, AND CABLING. STAGE TO MINIMIZE OUTAGES.
17. PROVIDE TWO-PIECE, TYPE 6, LOCKABLE HANDHOLE TO INTERCEPT EXISTING FLEET FORCES FIBER. THE CONTRACTOR TO PROVIDE SPLICES, AND NEW 48-PORT PATCH PANEL AND TERMINATIONS INSIDE B470. CUS/NOPF SHALL PERFORM THE CROSS CONNECTIONS TO THE EXISTING SYSTEMS.

NOTES:

1. REFER TO SHEET E-702 FOR SINGLE LINE CONNECTION INFORMATION.
2. CONCRETE ENCASED DUCTBANK.
3. DIRECT BURIED CONDUIT.
4. SEE SHEET TN701.
5. VERIFY WIRE SIZE IN MANHOLE (E)MH-1 PRIOR TO INSTALLMENT AND SPLICING.
6. PROVIDE (2) 2" 3-CELL INNERDUCT INSIDE EACH CONDUIT.

0 20' 40' 80'

1" = 40'



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FILE NAME: C:\Revit\Projects\2027-P603MSSFacModisMEP\2027 E_603_pgrs.dwg

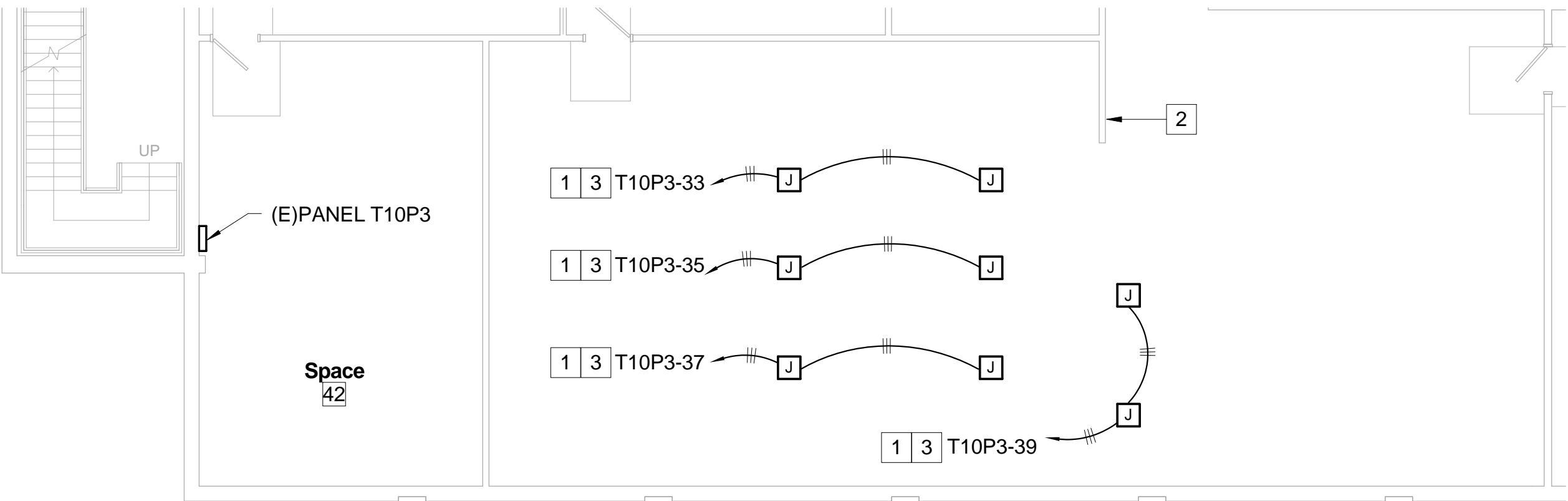
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C

B

A



B470 - PARTIAL SECOND FLOOR

SCALE: 1/8" = 1'-0"

2
E-401

DATA/EQUIP 209 - POWER

SCALE: 1/4" = 1'-0"

A1
E-401

NMCI 108 - POWER

SCALE: 1/4" = 1'-0"

A2
E-401

COMM 109 - POWER

SCALE: 1/4" = 1'-0"

C3
E-401

ELEC ROOM 111 - POWER

SCALE: 1/4" = 1'-0"

A3
E-401

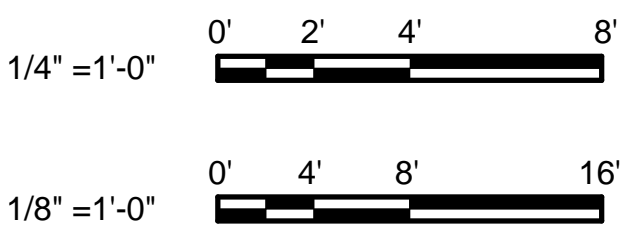
MECH ROOM 107 - POWER

SCALE: 1/4" = 1'-0"

KEYED NOTES: #

1. CONNECT TO SPARE CIRCUIT BREAKER IN EXISTING PANELBOARD.
2. REMOVE APPROXIMATELY FIVE (5) RECEPTACLES FROM THE PORTION OF THE WALL THAT IS TO BE DEMOLISHED. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE. MAINTAIN POWER TO ADJACENT WORKSTATION CONSOLES.
3. PROVIDE NEMA 5-20R RECEPTACLES TIGHT TO SLAB UNDERNEATH RAISED FLOOR AT EACH J-BOX LOCATION. COORDINATE THE EXACT LOCATION WITH THE GOVERNMENT.
4. UPS BACKED RECEPTACLE FOR LOCKHEED MARTIN NETWORK SWITCH. COORDINATE EXACT LOCATION WITH OWNER.
5. FOR THE (4) CONNECTIONS SHOWN: PROVIDE (3)L5-30R RECEPTACLES AND (1) NEMA L5-20R RECEPTACLE TIGHT TO SLAB UNDERNEATH RAISED FLOOR. COORDINATE THE EXACT LOCATION WITH THE GOVERNMENT.
6. PROVIDE ASTRONOMICAL TIMECLOCK RATED FOR 277V LIGHTING CIRCUITS AND 120V CONTROL.
7. VERIFY SWITCHBOARD DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL AND PROCUREMENT.
8. RACK MOUNT AHU/RAF/DOAS/BCU(S) VFD(S) AND DISCONNECT FOR THE DWH IN FRONT OF UNITS. COORDINATE WITH ANY UNIT ACCESS PANELS OR MAINTENANCE AREAS, AND WORKING CLEARANCE ABOVE.
9. MOUNT RECEPTACLE TO DOAS UNIT FOR CP-1 PUMP, GFI. CONNECT TO CIRCUIT LV1-2.

GRAPHIC SCALE:



JMR		APPR	
03/18/16		DATE	
AMENDMENT CHANGES		SYN DESCRIPTION	
1			
1305 EXECUTIVE BLVD. SUITE 160 CHESAPEAKE, VA 23320 757-548-2056			
APPROVED			
FOR COMMANDER NAVFAC / B.L.T.L.			
ACTIVITY			
SATISFACTORY TO DATE			
DES	JMR	DRW	JCH
CHK		QMS	
PROJECT MANAGER			
IPT TECH. BRANCH HEAD			
CHIEF ENGINEER			
DEPARTMENT OF THE NAVY			
NAVAL FACILITIES ENGINEERING COMMAND			
NAVAL FACILITIES ENGINEERING COMMAND - MIDLANT			
NAVAL STATION NORFOLK			
IPT-HAMPTON ROADS			
NAS OCEANA-DAM NECK ANNEX			
P-603 MARITIME SURVEILLANCE			
SYSTEM FACILITY			
P-603 - ENLARGED POWER PLANS			
SCALE: AS NOTED			
PROJECT NO. 1344924			
CONSTR. CONTR. NO. N40085-16-R-6119			
NAVFAC DRAWING NO. 12713002			
SHEET 236 OF 296			
E-401			
DRAWING REVISION: 10 MAY 2014			

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